



WOSC10

PREVIEW QUESTION BANK

Module Name : Computers and Information and Communication Technology-
E

Exam Date : 25-Mar-2018 Batch : 11:00-13:00

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Sr · N o.	Client Quest ion ID	Question Body and Alternatives	Mar ks	Nega tive Mark s
Objective Question				
1	1	Fedaration Cup, World Cup, Allwyn International Trophy and Challenge Cup are awarded to winners of A1 : Tennis A2 : Volleyball – (Correct Alternative) A3 : Basketball A4 : Cricket	1.0	0.25
Objective Question				
2	2	Which is the first country in the world to use drones for national mail service? A1 : Russia	1.0	0.25

		<p>A2 France – (Correct Alternative) :</p> <p>A3 Sweden :</p> <p>A4 China :</p>		
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Objective Question

3	3	<p>Consider the following materials/objects:</p> <p>A. Cornea B. Diamond C. Silicon D. Sodium Chloride</p> <p>The above materials/objects when arranged in increasing order of refractive index would be as follows:</p> <p>A1 ADCB :</p> <p>A2 ADBC – (Correct Alternative) :</p> <p>A3 DABC :</p> <p>A4 DACB :</p>	1. 0	0.2 5
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Objective Question

4	4	<p>Various developed countries often claim that cattles in less developed countries are responsible for huge release of green house gases, thus causing green house effect. The developed countries often use this logic that these countries have lot of low yield cattle and if high yield cattle are adopted on a large basis, then release of significant amount of greenhouse gases can be checked from releasing in the atmosphere. Cattles release the greenhouse gases due to:</p>	1. 0	0.2 5
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		<p>A1 Methanogenic bacteria in the stomach – (Correct Alternative)</p> <p>A2 : Improper handling of cow waste (eg: cow-dung, urine,etc.)</p> <p>A3 : Improper handling of leftover fodder</p> <p>A4 : High use of chemical fertilizers in agriculture</p>		
Objective Question				
5	5	<p>Consider the following statements and select the wrong option</p> <p>A1 If a person is stung by a honeybee it causes pain and : irritation. In such case, if baking soda is applied to the area, it provides relief to the person.</p> <p>A2 : Vitamin E is helpful in relief from sunburns</p> <p>A3 On various sunscreen creams/lotions SPF is mentioned. : SPF stands for Sun Protection Factor. SPF 20 means that the lotion is protecting you from 20% of the harmful UV radiations in the sunlight. – (Correct Alternative)</p> <p>A4 Vitamin D is required for the absorption of calcium by human : beings</p>	1. 0	0.2 5
Objective Question				
6	6		1. 0	0.2 5

		<p>Following are some observed natural phenomena :</p> <p>A. Mirage seen in places like deserts</p> <p>B. In winter sound of a whistle of a railway engine is heard at much longer distances</p> <p>C. Twinkling of a star in night as seen by naked eye</p> <p>D. Visibility of sun for some time after the sunset</p> <p>Which of the above natural phenomena are related to the variation in density of atmospheric air?</p> <p>A1 : ABD</p> <p>A2 : BCD</p> <p>A3 : ABCD – (Correct Alternative)</p> <p>A4 : None of these</p>		
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Objective Question

7	7	<p>The following are some common diseases:</p> <p>A. Diphtheria</p> <p>B. Rabies</p> <p>C. Cholera</p> <p>D. Malaria</p> <p>Which of the above diseases are not caused by Virus?</p> <p>A1 : ABC</p> <p>A2 BCD</p>	1. 0	0.2 5
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		<p>:</p> <p>A3 ADC – (Correct Alternative)</p> <p>:</p> <p>A4 ABD</p> <p>:</p>		
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Objective Question

8	8	<p>Which of the following is Greenhouse gas?</p> <p>A1 Carbon Monoxide</p> <p>:</p> <p>A2 Carbon Dioxide – (Correct Alternative)</p> <p>:</p> <p>A3 Sulphur Dioxide</p> <p>:</p> <p>A4 Chlorine</p> <p>:</p>	1.0	0.25
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Objective Question

9	9	<p>Tuberculosis is caused due to</p> <p>A1 Bacteria – (Correct Alternative)</p> <p>:</p> <p>A2 Virus</p> <p>:</p> <p>A3 Fungus</p> <p>:</p> <p>A4 None of the above</p> <p>:</p>	1.0	0.25
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Objective Question				
10	10	<p>United Nations Headquarter is situated at</p> <p>A1 Geneva :</p> <p>A2 Washington D.C. :</p> <p>A3 New York – (Correct Alternative) :</p> <p>A4 Paris :</p>	1. 0	0.2 5
Objective Question				
11	11	<p>A seller gives a discount of 25% on a product with MRP marked INR 3680. He earns a profit of 15% over its cost price in this transaction. Cost price of the product is</p> <p>A1 2100 :</p> <p>A2 2200 :</p> <p>A3 2300 :</p> <p>A4 2400 – (Correct Alternative) :</p>	1. 0	0.2 5
Objective Question				
12	12	<p>The side of a rectangular field is in ratio 4:5. Area of the field is 12500 sq mt. If the cost of fencing is INR 5/meter, how much it will cost to fence entire field?</p> <p>A1 INR 61,000 :</p>	1. 0	0.2 5

		<p>A2 INR 62,500 – (Correct Alternative)</p> <p>:</p> <p>A3 INR 63,500</p> <p>:</p> <p>A4 INR 65,000</p> <p>:</p>		
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Objective Question

13	13	<p>A box has 3 red, 2 yellow and 5 green balls. If two balls are drawn at random, what is the probability that both are yellow balls?</p> <p>A1 $\frac{1}{45}$ – (Correct Alternative)</p> <p>:</p> <p>A2 $\frac{5}{18}$</p> <p>:</p> <p>A3 $\frac{3}{31}$</p> <p>:</p> <p>A4 $\frac{2}{9}$</p> <p>:</p>	1. 0	0.2 5
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Objective Question

14	14	<p>If X and Y together can do a piece of work in 6 days. X alone can do the same work in 15 days. What time will Y take to do the same work alone?</p> <p>A1 8 days</p> <p>:</p> <p>A2 9 days</p> <p>:</p>	1. 0	0.2 5
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		<p>A3 10 days – (Correct Alternative) :</p> <p>A4 12 days :</p>		
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Objective Question

15	15	<p>If a solid sphere of radius 15 cm is molded into 27 spherical smaller solid balls of equal radius, then the surface area of each smaller ball is</p> <p>A1 100Ωcm² – (Correct Alternative) :</p> <p>A2 105Ωcm² :</p> <p>A3 110 Ωcm² :</p> <p>A4 115Ωcm² :</p>	1.0	0.25
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Objective Question

16	16	<p>Three six-sided dice are rolled simultaneously, what is the probability of getting a different number on each dice?</p> <p>A1 1/3 :</p> <p>A2 2/3 :</p> <p>A3 4/9 :</p> <p>A4 5/9 – (Correct Alternative) :</p>	1.0	0.25
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Objective Question				
17	17	<p>The speed of a boat is 20 km/hr in still water. If the river is running at 5 km/hr, it takes boat 96 minutes to go to a place and come back to initial position. How far is the place from the initial point?</p> <p>A1 12 km :</p> <p>A2 13 km :</p> <p>A3 15 km – (Correct Alternative) :</p> <p>A4 18 km :</p>	1. 0	0.2 5
Objective Question				
18	18	<p>What is the probability of drawing an Ace or a King from a deck of 52 cards?</p> <p>A1 $\frac{1}{13}$:</p> <p>A2 $\frac{2}{13}$ – (Correct Alternative) :</p> <p>A3 $\frac{1}{52}$:</p> <p>A4 $\frac{1}{26}$:</p>	1. 0	0.2 5
Objective Question				
19	19	<p>A cricketer has an average of 55 runs in 5 innings. Find out how many runs she needed to score in her sixth innings to raise her average to 60 runs?</p>	1. 0	0.2 5

		<p>A1 60 :</p> <p>A2 75 :</p> <p>A3 80 :</p> <p>A4 85 – (Correct Alternative) :</p>		
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Objective Question

20	20	<p>The LCM of two numbers is 900 and their HCF is 50. If one of the numbers is 450, the other is</p> <p>A1 120 :</p> <p>A2 100 – (Correct Alternative) :</p> <p>A3 125 :</p> <p>A4 150 :</p>	1. 0	0.2 5
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Objective Question

21	21	<p>If you write an original software, what type of IP rights you can get to make and sell copies of your work?</p> <p>A1 Copyright – (Correct Alternative) :</p> <p>A2 Patents :</p>	1. 0	0.2 5
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		A3 Registered Designs :		
		A4 Trademarks :		

Objective Question

22	22	International organization with objective to encourage creative activity and to promote intellectual property throughout world is	1.0	0.25
		A1 WIPO – (Correct Alternative) :		
		A2 World Bank :		
		A3 WTO :		
		A4 UNDP :		

Objective Question

23	23	_____ is a form of intellectual property that protects the expression of ideas	1.0	0.25
		A1 Trade name :		
		A2 Copyright – (Correct Alternative) :		
		A3 Patent :		
		A4 Trade Mark :		

Objective Question				
24	24	<p>A formula, process, device or other business information that has commercial value and is kept confidential to maintain an advantage over competitors is known as a:</p> <p>A1 Patent :</p> <p>A2 Trade secret – (Correct Alternative) :</p> <p>A3 Copyright :</p> <p>A4 Trade Mark :</p>	1.0	0.25
Objective Question				
25	25	<p>Fair use allows you to use a limited amount of copyrighted material for your educational use. Which step below does NOT pass the fair use test?</p> <p>A1 Will be used for a non-profit educational purpose :</p> <p>A2 Will be used on a Web page – (Correct Alternative) :</p> <p>A3 Will only use a small portion :</p> <p>A4 Will not deprive the author from making money :</p>	1.0	0.25
Objective Question				
26	26	<p>Term of patent in India is</p> <p>A1 15 years :</p>	1.0	0.25

		<p>A2 25 years :</p> <p>A3 20 years – (Correct Alternative) :</p> <p>A4 10 years :</p>		
Objective Question				
27	27	<p>What does a trademark protect?</p> <p>A1 An invention :</p> <p>A2 a work of art :</p> <p>A3 logos, names and brands – (Correct Alternative) :</p> <p>A4 the look, shape and feel of a product :</p>	1. 0	0.2 5
Objective Question				
28	28	<p>If a company develops a new technology that improves its main product, what type of intellectual property can they use to stop others from copying their invention ?</p> <p>A1 Copyright :</p> <p>A2 Geographical indications :</p> <p>A3 Patents – (Correct Alternative) :</p>	1. 0	0.2 5

		A4 Trademarks :		
Objective Question				
29	29	A patent awarded by the patent office in Japan is valid in: A1 Indonesia : A2 Japan – (Correct Alternative) : A3 All ASEAN countries : A4 All countries that adhere to TRIPS :	1. 0	0.2 5
Objective Question				
30	30	Which of the following is NOT a basic requirement for a patent? A1 It must have utility : A2 It must be novel : A3 It must not be obvious to a person of ordinary skill in the field : A4 It must be extraordinary creative – (Correct Alternative) :	1. 0	0.2 5
Objective Question				
31	31	Choose the word or phrase that is most nearly opposite in meaning to the word in capital letter . LICENSED:	1. 0	0.2 5

		<p>A1 : Unnoticed</p> <p>A2 : unwritten</p> <p>A3 : not formally authorised – (Correct Alternative)</p> <p>A4 : not properly trained</p>		
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Objective Question

32	32	<p>Clear the jumble and select a grammatically correct sentence which also makes sense. To/ pay/ fifty/ rupees/ much/ too/ was/ me/ for/ thousand/ just</p> <p>A1 Fifty thousand rupees was just too much for me to pay – : (Correct Alternative)</p> <p>A2 : Pay just fifty thousand rupees to me was too much</p> <p>A3 : Fifty thousand rupees was too much just to pay for me</p> <p>A4 : To pay just fifty thousand rupees was too much for me</p>	1. 0	0.2 5
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Objective Question

33	33	<p>Select the word or set of words that <u>best</u> completes the following sentence. Because our supply of fossil fuel has been sadly ____, we must find ____ source of energy.</p> <p>A1 : stored.....hoarded</p> <p>A2 : compensated.....significant</p>	1. 0	0.2 5
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		<p>A3 exhausted....inefficient :</p> <p>A4 depleted.....alternate – (Correct Alternative) :</p>		
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Objective Question

34	34	<p>Tick the word <u>closest</u> in meaning to the word in <i>italics</i> - an <i>audacious</i> attempt</p> <p>A1 useless :</p> <p>A2 foolish :</p> <p>A3 bold – (Correct Alternative) :</p> <p>A4 crazy :</p>	1. 0	0.2 5
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Objective Question

35	35	<p>Choose the most appropriate word to complete the following sentence: There is a _____ of cows in the next field.</p> <p>A1 Flock :</p> <p>A2 Swarm :</p> <p>A3 Group :</p> <p>A4 Herd – (Correct Alternative)</p>	1. 0	0.2 5
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Objective Question

36	36	Choose the phrase which fits the sentence best : The bus _____ coming.	1.0	0.25
		A1 Will :		
		A2 Has :		
		A3 Is – (Correct Alternative) :		
		A4 On :		

Objective Question

37	37	Choose the correctly spelt word:	1.0	0.25
		A1 adversity – (Correct Alternative) :		
		A2 adeversity :		
		A3 advercity :		
		A4 aedversity :		

Objective Question

38	38	Which of the following words best explains the phrase given below? One who abandons his religious faith.	1.0	0.25
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		<p>A1 traitor :</p> <p>A2 apostate – (Correct Alternative) :</p> <p>A3 prostrate :</p> <p>A4 blasphemmer :</p>		
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Objective Question

39	39	<p>Select the word that is most appropriate to complete the sentence: He was blind _____ one eye.</p> <p>A1 with :</p> <p>A2 along :</p> <p>A3 in – (Correct Alternative) :</p> <p>A4 on :</p>	1. 0	0.2 5
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Objective Question

40	40	<p>Choose the word or phrase that is most nearly opposite in meaning to the given word. Widely</p> <p>A1 narrowly – (Correct Alternative) :</p> <p>A2 spaciouly :</p>	1. 0	0.2 5
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		A3 broadly :		
		A4 relatively :		

Objective Question

41	41	Which of the following are prime numbers? A1 1,3,5 : A2 1,5,7 : A3 2,3,5 – (Correct Alternative) : A4 1,7,9 :	1. 0	0.2 5
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Objective Question

42	42	A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is A1 $59\frac{7}{11}$ min. past 3 p.m. : A2 4 P.M. – (Correct Alternative) : A3 $58\frac{7}{11}$ min., past 3 p.m. : A4 $2\frac{3}{11}$ min. past 4 p.m. :	1. 0	0.2 5
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Objective Question				
43	43	<p>In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is</p> <p>A1 75 cu. m :</p> <p>A2 750 cu. m – (Correct Alternative) :</p> <p>A3 7500 cu. m :</p> <p>A4 75000 cu. m :</p>	1. 0	0.2 5
Objective Question				
44	44	<p>The total time taken by a boatman to row his boat upstream and downstream distance of 56 km together is 12 hours. The difference between times taken by him to row his boat another upstream and downstream distance of 42 km is 3 hours. Find the speed of boat and stream.</p> <p>A1 12.5 kmph, 1.5 kmph :</p> <p>A2 11.5 kmph, 2.5 kmph :</p> <p>A3 9.5 kmph, 4.5 kmph :</p> <p>A4 10.5 kmph, 3.5 kmph – (Correct Alternative) :</p>	1. 0	0.2 5
Objective Question				
45	45	<p>A says to B "I am twice as old as you were when I was as old as you are". The sum of their ages is 56 years. Find the difference of their ages.</p>	1. 0	0.2 5

		<p>A1 9 :</p> <p>A2 11 :</p> <p>A3 13 :</p> <p>A4 8 – (Correct Alternative) :</p>		
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Objective Question

46	46	<p>A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?</p> <p>A1 26.16 :</p> <p>A2 28.16 :</p> <p>A3 29.16 – (Correct Alternative) :</p> <p>A4 30.16 :</p>	1. 0	0.2 5
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Objective Question

47	47	<p>How many times is the HCF of 48, 36, 72, and 24 contained in their LCM?</p> <p>A1 8 times :</p> <p>A2 16 times</p>	1. 0	0.2 5
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		<p>:</p> <p>A3 12 times – (Correct Alternative)</p> <p>:</p> <p>A4 4 times</p> <p>:</p>		
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Objective Question

48	48	<p>In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?</p> <p>A1 120</p> <p>:</p> <p>A2 720 – (Correct Alternative)</p> <p>:</p> <p>A3 4320</p> <p>:</p> <p>A4 1440</p> <p>:</p>	1.0	0.25
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Objective Question

49	49	<p>Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1:1:2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:</p> <p>A1 Rs. 169.50</p> <p>:</p> <p>A2 Rs. 170</p> <p>:</p> <p>A3 Rs. 180</p> <p>:</p>	1.0	0.25
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		A4 Rs. 175.50 – (Correct Alternative) :		
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Objective Question

50	50	<p>In an exam, Class A scored an average of 50 marks with standard deviation of 5. Class B scored an average of 50 with standard deviation of 9. Which of the following statements is true?</p> <p>A1 : Class B has more students than Class A.</p> <p>A2 : Class A has more students than Class B</p> <p>A3 : Class A has more outlier students than Class B</p> <p>A4 Class B has more outlier students than Class A – (Correct Alternative)</p>	1. 0	0.2 5
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Objective Question

51	51	<p>C is favorite child of F. C is fond of her younger brother B. B is not the only sibling of A. F loves her father M. What is A to M?</p> <p>A1 Grand child – (Correct Alternative) :</p> <p>A2 : Grand parent</p> <p>A3 : No relation</p> <p>A4 : Parent</p>	1. 0	0.2 5
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Objective Question

52	52	If HEN = 124; WIRE = 9752; and RAT = 538, EATEN is	1.	0.2
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		_____?	0	5
		A1 : 28324		
		A2 : 23874		
		A3 : 23824 – (Correct Alternative)		
		A4 : 42832		

Objective Question

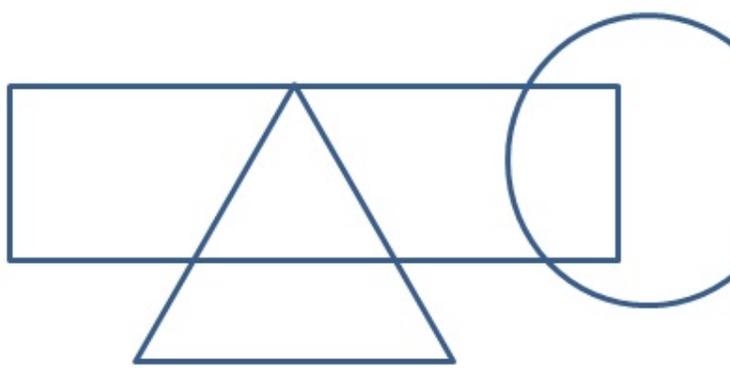
53	53	A pen was marked as Rs 1000. After a good negotiation, I bought it at a discount of 20%. Now I am offering the same pen at 20% profit. What is the difference between the new price and old price?	1.0	0.25
		A1 : Rs. 160		
		A2 : Rs. 200		
		A3 : Rs. 40 – (Correct Alternative)		
		A4 : No difference		

Objective Question

54	54	In Roman numerals, M, L, and XL stand for _____.	1.0	0.25
		A1 : 1000, 50, 40 – (Correct Alternative)		

		A2 : 40, 42, 44		
		A3 : 30, 40, 50		
		A4 : 1000, 40, 50		

Objective Question

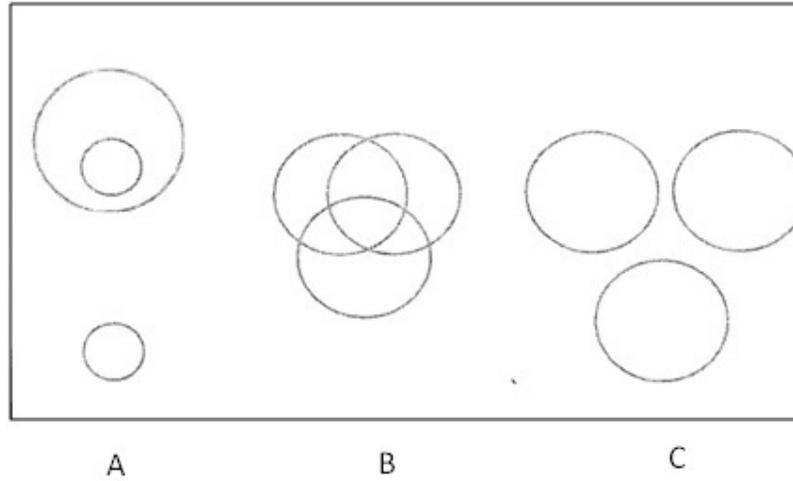
55	55	<p>In the following diagram, triangle represents mathematicians, rectangle represents programmers and circle represents philosophers. Which of the following is incorrect?</p>  <p>A1 : Some of the philosophers are programmers.</p> <p>A2 : Some of the programmers are mathematicians.</p> <p>A3 Some of the mathematicians are philosophers. – (Correct Alternative)</p> <p>A4 : Some of the programmers are not mathematicians</p>	1. 0	0.2 5
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Objective Question

56	56		1.	0.2
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0 5

Which of the diagrams best fits the association between Sparrow.



A1 A – (Correct Alternative)

A2 B

A3 C

A4 D

Objective Question

57 57

A person walks at 10km/h for 6hr and at 8km/h for 12hr. Her average speed is ____ km/h

1. 0.2
0 5

A1 6.22

A2 8.67 – (Correct Alternative)

		: A3 3.77 : A4 9 :		
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Objective Question

58	58	If K and M together own 1750 balls. If $\frac{4}{25}$ of K's share is equal to $\frac{2}{5}$ of M's share, how many balls M have? A1 1250 : A2 500 – (Correct Alternative) : A3 750 : A4 1050 :	1.0	0.25
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Objective Question

59	59	A large number of people suffer from Dengue every year in India. Dengue is spread by female mosquitoes during the day time. Dengue can be prevented by avoiding all chances of mosquitoes breeding. The para best supports the statement that A1 Male mosquitoes do not spread diseases : A2 People should not step out during the day time : A3 Mosquitoes breeding should be stopped – (Correct Alternative) :	1.0	0.25
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A4
: Dengue is the only diseases that affects Indian people

Objective Question

60 60

A player was asked to run around the circular cricket ground as punishment. The coach was standing at the exact center of the ground which was 100 M from the boundary. How much distance does the player cover in one round?

1. 0.2
0 5

A1
: 200.8

A2
: 628.32 – (Correct Alternative)

A3
: 800.8

A4
: 400.4

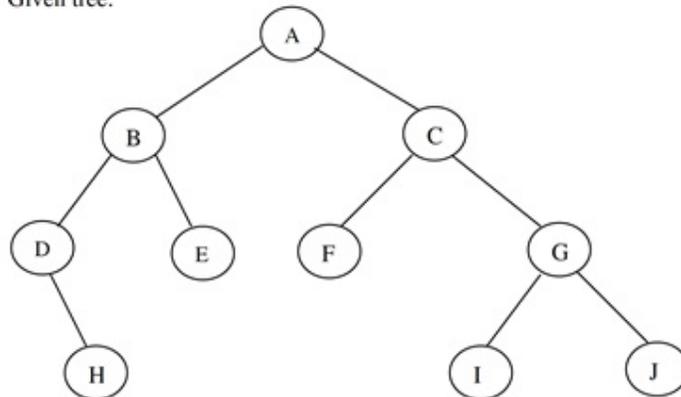
Objective Question

61 61

The post-order traversal of the following tree is

1. 0.2
0 5

Given tree:



		<p>A1 : DHBEAFCIGJ</p> <p>A2 : ABDHECFGIJ</p> <p>A3 : HDEBFIJGCA – (Correct Alternative)</p> <p>A4 : None</p>		
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Objective Question

62	62	<p>What will be the output of the following program?</p> <pre>void main() { int const *p = 5; printf("%d", ++(*p)); }</pre> <p>A1 5 :</p> <p>A2 6 :</p> <p>A3 compiler error – (Correct Alternative) :</p> <p>A4 runtime error :</p>	1. 0	0.2 5
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Objective Question

63	63	<p>What will be the output of the following program?</p> <pre>main() { int i = 5; printf("%d%d%d%d", i++, i--, ++i, --i, i); }</pre>	1. 0	0.2 5
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		<p>A1 45545 – (Correct Alternative) :</p> <p>A2 55455 :</p> <p>A3 54454 :</p> <p>A4 45455 :</p>		
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Objective Question

64	64	<p>What will be the output of the following program?</p> <pre>main() { int i=5,j=10; i=i&=j&&10; printf("%d,%d",i,j); }</pre> <p>A1 (5,10) :</p> <p>A2 (0,0) :</p> <p>A3 (1,0) :</p> <p>A4 (1,10) – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

65	65	<p>Consider a logical address space of 8 pages of 1024 words, mapped into memory of 32 frames. Number of logical address bits are</p>	1. 0	0.2 5
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		<p>A1 5 :</p> <p>A2 10 :</p> <p>A3 13 – (Correct Alternative) :</p> <p>A4 15 :</p>		
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Objective Question

66	66	<p>Consider a system with 90% hit ratio, 40 nanosecs time to search the associative registers, 800 nanosecs time to access memory. Which of the following is the effective memory access time?</p> <p>A1 840 :</p> <p>A2 920 – (Correct Alternative) :</p> <p>A3 1640 :</p> <p>A4 1560 :</p>	1.0	0.25
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Objective Question

67	67	<p>What is the average waiting time for shortest remaining time preemptive scheduling, when processes have the following characteristics?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Process</th> <th>Arrival time</th> <th>Burst time</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>0.0</td> <td>7</td> </tr> <tr> <td>P2</td> <td>2.0</td> <td>4</td> </tr> <tr> <td>P3</td> <td>4.0</td> <td>1</td> </tr> <tr> <td>P4</td> <td>5.0</td> <td>4</td> </tr> </tbody> </table>	Process	Arrival time	Burst time	P1	0.0	7	P2	2.0	4	P3	4.0	1	P4	5.0	4	1.0	0.25
Process	Arrival time	Burst time																	
P1	0.0	7																	
P2	2.0	4																	
P3	4.0	1																	
P4	5.0	4																	

		<p>A1 3 – (Correct Alternative)</p> <p>:</p> <p>A2 4</p> <p>:</p> <p>A3 5</p> <p>:</p> <p>A4 6</p> <p>:</p>		
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Objective Question

68	68	Key to represent relationship between tables is called	1.0	0.25
		<p>A1 Primary key</p> <p>:</p> <p>A2 Secondary key</p> <p>:</p> <p>A3 Foreign key – (Correct Alternative)</p> <p>:</p> <p>A4 None of the above</p> <p>:</p>		

Objective Question

69	69	An entity set that does not have sufficient attributes to form a primary key is called	1.0	0.25
		<p>A1 Strong entity set</p> <p>:</p> <p>A2 Weak entity set – (Correct Alternative)</p> <p>:</p>		

		A3 : Primary entity set		
		A4 : Simple entity set		

Objective Question

70	70	<p>Given a schema R(A, B, C, D, E), and the following set of FDs: {A → E, E → CD, BC → A, D → B}, which of the following is not a candidate key?</p> <p>A1 : A</p> <p>A2 : BC</p> <p>A3 : CD</p> <p>A4 : D – (Correct Alternative)</p>	1. 0	0.2 5
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Objective Question

71	71	<p>Which statements are true regarding ICMP packets?</p> <p>i. They acknowledge receipt of a TCP segment.</p> <p>ii. They guarantee datagram delivery.</p> <p>iii. They can provide hosts with information about network problems.</p> <p>iv. They are encapsulated within IP datagrams.</p> <p>A1 : i. only</p> <p>A2 : ii. and iii.</p> <p>A3 : iii. and iv – (Correct Alternative)</p>	1. 0	0.2 5
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		A4 : iv.		
Objective Question				
72	72	<p>A Corporate router receives an IP packet with a source IP address of 192.168.214.20 and a destination address of 192.168.22.3. Looking at the following routing table, what will the router do with this packet?</p> <pre>Corp#sh ip route [output cut] R 192.168.215.0 [120/2] via 192.168.20.2, 00:00:23, Serial0/0 R 192.168.115.0 [120/1] via 192.168.20.2, 00:00:23, Serial0/0 R 192.168.30.0 [120/1] via 192.168.20.2, 00:00:23, Serial0/0 C 192.168.20.0 is directly connected, Serial0/0 C 192.168.214.0 is directly connected, FastEthernet0/0</pre> <p>A1 : discard it – (Correct Alternative)</p> <p>A2 : route to S0/0</p> <p>A3 : route to F0/0 interface</p> <p>A4 : broadcast to find destination</p>	1.0	0.25
Objective Question				
73	73	<p>For a 50 Mbps channel on a geo-stationary satellite with 540 msec round trip delay, the bandwidth delay product is</p> <p>A1 : 540 megabits</p> <p>A2 : 50 megabits</p> <p>A3 : 27 megabits – (Correct Alternative)</p>	1.0	0.25

		A4 : 10.8 megabits		
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Objective Question

74	74	<p>Kruskal's algorithm for finding the minimum cost spanning tree in a graph is an example of a _____ algorithm</p> <p>A1 : Dynamic programming</p> <p>A2 : Greedy – (Correct Alternative)</p> <p>A3 : Branch and bound</p> <p>A4 : Divide and Conquer</p>	1. 0	0.2 5
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Objective Question

75	75	<p>The running time for mergesort algorithm is</p> <p>A1 : $O(n^2)$</p> <p>A2 : $O(n)$</p> <p>A3 : $O(n \log n)$ – (Correct Alternative)</p> <p>A4 : $O(\log n)$</p>	1. 0	0.2 5
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Objective Question

76	76	<p>What is the result on a stack S that contains only an element X after the following operations? pop(S);</p>	1. 0	0.2 5
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		<p>top(S);</p> <p>A1 S :</p> <p>A2 X :</p> <p>A3 Null : – (Correct Alternative)</p> <p>A4 None of the above :</p>		
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Objective Question

77	77	<p>A simple connected undirected graph on n nodes and n-1 edges can be i. tree ii. path iii. cycle</p> <p>A1 i. and ii – (Correct Alternative) :</p> <p>A2 ii. and iii. :</p> <p>A3 i. and iii. :</p> <p>A4 i., ii., and iii. :</p>	1. 0	0.2 5
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Objective Question

78	78	<p>In a tree, the number of nodes with degree 3 or more is</p> <p>A1 strictly bigger than number of leaves :</p> <p>A2 equal to the number of leaves</p>	1. 0	0.2 5
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		: A3 strictly smaller than the number of leaves – (Correct Alternative) A4 : smaller or equal to the number of leaves		
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Objective Question

79	79	SQL allows duplicate tuples in relations, and correspondingly defines the multiplicity of tuples in the result of joins. Which of the following queries always give the same answer as the nested query shown if attribute B is a primary key in S: Select * from R where B in (Select S. B from S) i. Select R. * from R, S where R. B=S. B ii. Select distinct R. * from R, S where R. B=S. B iii. Select R. * from R, (Select distinct B from S) as S1 where R. B=S1 B A1 : (i) A2 (i) and (iii) – (Correct Alternative) A3 : (ii) and (iii) A4 : None of the above	1. 0	0.2 5
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Objective Question

80	80	Consider a system having 'm' resources of the same type. These resources are shared by 3 processes A, B, C, which have peak time demands of 3, 4, 6 respectively. The minimum value of 'm' that ensures that deadlock will never occur is A1 11 – (Correct Alternative)	1. 0	0.2 5
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		A2 12 :		
		A3 13 :		
		A4 14 :		

Objective Question

81	81	A semaphore is a shared integer variable A1 that cannot drop below zero – (Correct Alternative) : A2 that cannot be more than zero : A3 that cannot drop below one : A4 that cannot be more than one :	1. 0	0.2 5
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Objective Question

82	82	How many times the following C program prints yes : main() { fork();fork();printf("yes"); } A1 2 times : A2 3 times :	1. 0	0.2 5
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		<p>A3 4 times – (Correct Alternative)</p> <p>:</p> <p>A4 8 times</p> <p>:</p>		
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Objective Question

83	83	<p>The Address Resolution Protocol (ARP) is used for :</p> <p>A1 Finding the IP address from the DNS.</p> <p>:</p> <p>A2 Finding the IP address of the default gateway.</p> <p>:</p> <p>A3 Finding the IP address that corresponds to a MAC address</p> <p>:</p> <p>A4 Finding the MAC address that corresponds to an IP address – (Correct Alternative)</p>	1. 0	0.2 5
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Objective Question

84	84	<p>Which of the following statements are TRUE</p> <p>(S1) TCP handles both congestion and flow control</p> <p>(S2) UDP handles congestion but not flow control</p> <p>(S3) Fast retransmit deals with congestion but not flow control</p> <p>(S4) Slow start mechanism deals with both congestion and flow control</p> <p>A1 S1, S2 and S3 only</p> <p>:</p> <p>A2 S1 and S3 only</p> <p>:</p> <p>A3 S1, S3 and S4 only – (Correct Alternative)</p>	1. 0	0.2 5
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		: A4 S3 and S4 only :		
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Objective Question

85	85	How many 32K * 1 RAM chips are needed to provide a memory capacity of 256 K-bytes? A1 8 : A2 32 : A3 64 – (Correct Alternative) : A4 128 :	1.0	0.25
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Objective Question

86	86	A CPU has an arithmetic unit that adds bytes and then sets its V, C, and Z flag bits as follows. The V-bit is set if arithmetic overflow occurs (in twos complement arithmetic). The C-bit is set if a carry-out is generated from the most significant bit during an operation. The Z-bit is set if the result is zero. What are the values of the V, C, and Z flag bits, respectively after the 8-bit bytes 11001100 and 10001111 are added: A1 0 0 0 : A2 1 1 0 – (Correct Alternative) : A3 1 1 1 :	1.0	0.25
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		A4 0 0 1 :		
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Objective Question

87	87	<p>In a pipelined RISC computer where all arithmetic instructions have the same CPI (cycles per instruction), which of the following actions would improve the execution time of a typical program:</p> <p>I. Increasing the clock cycle rate.</p> <p>II Disallowing any forwarding in the pipeline.</p> <p>III. Doubling the sizes of the instruction cache and the data cache without changing the clock cycle time.</p> <p>A1 I only :</p> <p>A2 II only :</p> <p>A3 I and II only :</p> <p>A4 I and III – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

88	88	<p>Which of the following is used in digital circuits to control signal and data routing</p> <p>A1 Multiplexers – (Correct Alternative) :</p> <p>A2 Program counters :</p> <p>A3 Flip-flops :</p> <p>A4 Gates</p>	1. 0	0.2 5
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		:		
Objective Question				
89	89	In the absolute addressing mode	1.0	0.25
		A1 : the operand is inside the instruction.		
		A2 the address of the operand is inside the instruction. – : (Correct Alternative)		
		A3 the register containing the address of the operand is specified : inside the instruction		
		A4 : the location of the operand is implicit.		
Objective Question				
90	90	A queue is implemented using an array such that ENQUEUE and DEQUEUE operations are performed efficiently. Which one of the following statements is CORRECT (n refers to the number of items in the queue)?	1.0	0.25
		A1 Both operations can be performed in constant time – : (Correct Alternative)		
		A2 At most one operation can be performed in constant time but : the worst case time for the other operation will be at least n		
		A3 The worst case time complexity for both operations will be at : least n		
		A4 Worst case time complexity for both operations will be at least : $\log_2 n$		
Objective Question				
91	91	Which of the following pairs have DIFFERENT expressive power?	1.0	0.25

		<p>A1 Deterministic finite automata(DFA) and Non-deterministic : finite automata(NFA)</p> <p>A2 Deterministic push down automata(DPDA) and Non-deterministic push down – (Correct Alternative)</p> <p>A3 Deterministic single-tape Turing machine and Non-deterministic single-tape Turing machine</p> <p>A4 Single-tape Turing machine and multi-tape Turing machine :</p>		
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Objective Question

92	92	<p>In a heap with n elements with the smallest element at the root, the seventh smallest element can be found in time</p> <p>A1 $(n \log n)$ – (Correct Alternative)</p> <p>A2 automata(NPDA)</p> <p>A3 $(\log n)$</p> <p>A4 (1)</p>	1.0	0.25
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Objective Question

93	93	<p>Suppose a circular queue of capacity (n-1) elements is implemented with an array of n elements. Assume that the insertion and deletion operations are carried out using REAR and FRONT as array index variables, respectively. Initially REAR=FRONT=0. The conditions to detect queue full and queue empty are?</p> <p>A1 Full: $(REAR+1) \bmod n = = FRONT$ Empty: $REAR = = FRONT$ – (Correct Alternative)</p>	1.0	0.25
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		<p>A2 Full: $(REAR+1) \bmod n = FRONT$ Empty: $(FRONT+1) \bmod n = REAR$</p> <p>A3 Full: $REAR = FRONT$ Empty: $(REAR+1) \bmod n = FRONT$</p> <p>A4 Full: $(FRONT+1) \bmod n = REAR$ Empty: $REAR = FRONT$</p>		
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Objective Question

94	94	<p>A deck of 5 cards (each carrying a distinct number from 1 to 5) is shuffled thoroughly. Two cards are then removed one at a time from the deck. What is the probability that the two cards are selected with the number on the first card being one higher than the number on the second card?</p> <p>A1 $\frac{1}{5}$ – (Correct Alternative)</p> <p>A2 $\frac{4}{25}$</p> <p>A3 $\frac{1}{4}$</p> <p>A4 $\frac{2}{5}$</p>	1.0	0.2
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Objective Question

95	95	<p>Given Set A = {2; 3; 4; 5} and Set B = {11; 12; 13; 14; 15} two numbers are randomly selected, one from each set. What is the probability that the sum of the two numbers equals 16?</p> <p>A1 0:20 – (Correct Alternative)</p> <p>A2 0:30</p>	1.0	0.2
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		A3 0:25 :		
		A4 0:33 :		

Objective Question

96	96	Which language class has the following properties? It is closed under union and intersection but not complement.	1.0	0.25
		A1 Regular language :		
		A2 Context-free languages :		
		A3 Recursive languages :		
		A4 Recursively enumerable languages – (Correct Alternative)		

Objective Question

97	97	Let P, Q and R be true atomic propositional assertions. Let X denotes $(P \vee Q) \rightarrow R$ and Y denotes $(P \rightarrow R) \vee (Q \rightarrow R)$. Which one of the following is a tautology?	1.0	0.25
		A1 $X \leftrightarrow Y$:		
		A2 $X \rightarrow Y$ – (Correct Alternative)		
		A3 $Y \rightarrow X$:		
		A4 $\text{not } Y \rightarrow X$:		

Objective Question				
98	98	<p>Two events, A and B, are mutually exclusive and each have a nonzero probability. If event A is known to occur, the probability of the occurrence of event B is:</p> <p>A1 : one</p> <p>A2 : any positive value</p> <p>A3 : zero – (Correct Alternative)</p> <p>A4 : any value between 0 to 1</p>	1. 0	0.2 5
Objective Question				
99	99	<p>What does the following declaration mean? int (*ptr)[10];</p> <p>A1 : ptr is array of pointers to 10 integers</p> <p>A2 : ptr is a pointer to an array of 10 integers – (Correct Alternative)</p> <p>A3 : ptr is an array of 10 integers</p> <p>A4 : ptr is an pointer to array</p>	1. 0	0.2 5
Objective Question				
100	100		1. 0	0.2 5

		<p>Let $G=(V, E)$ be any connected undirected edge-weighted graph. The weights of the edges in E are positive and distinct. Consider the following statements:</p> <p>i) Minimum spanning tree of G is always unique j) Shortest path between any two vertices of G is always unique</p> <p>Which of the above statements is/are necessarily true?</p> <p>A1 : i only</p> <p>A2 j only – (Correct Alternative) :</p> <p>A3 : both i and j</p> <p>A4 : neither i nor j</p>		
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Objective Question

10 1	101	<p>Which of the following is true about Linux?</p> <p>A1 : It is developed by AT&T.</p> <p>A2 : It is developed by Microsoft</p> <p>A3 It is open source software – (Correct Alternative) :</p> <p>A4 : It is closed source software</p>	1. 0	0.2 5
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Objective Question

10 2	102	<p>A compiler translates a program written in a high-level language into</p> <p>A1 Machine language – (Correct Alternative)</p>	1. 0	0.2 5
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		<p>:</p> <p>A2 An algorithm</p> <p>:</p> <p>A3 A debugged program</p> <p>:</p> <p>A4 Natural language</p> <p>:</p>		
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Objective Question

10 3	103	<p>What does the computer's operating system do?</p> <p>A1 Communicates with peripherals</p> <p>:</p> <p>A2 Coordinates concurrent processing of jobs</p> <p>:</p> <p>A3 Monitors resources and handles basic security</p> <p>:</p> <p>A4 All of the above – (Correct Alternative)</p> <p>:</p>	1. 0	0.2 5
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Objective Question

10 4	104	<p>If a user needs information instantly available to the CPU, it should be stored:</p> <p>A1 In the CPU</p> <p>:</p> <p>A2 In RAM – (Correct Alternative)</p> <p>:</p> <p>A3 In secondary storage</p> <p>:</p>	1. 0	0.2 5
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		A4 On a CD :		
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Objective Question				
105	105	A physical connection between the microprocessor memory and other parts of the microcomputer is known as A1 Path : A2 Address bus – (Correct Alternative) : A3 Route : A4 All of the above :	1.0	0.25

Objective Question				
106	106	Programs such as Internet Explorer that serve as navigable windows into the Web are called A1 Networks : A2 Internet : A3 Web browsers – (Correct Alternative) : A4 None of these :	1.0	0.25

Objective Question				
107	107	Which image file format can be animated?	1.0	0.2

7		<p>A1 GIF – (Correct Alternative) :</p> <p>A2 JPEG :</p> <p>A3 CDR :</p> <p>A4 TIFF :</p>	0	5
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Objective Question

10 8	108	<p>The Satellite based Tracking system that enables the determination of person's position is ____?</p> <p>A1 WAP :</p> <p>A2 SMS :</p> <p>A3 GPS – (Correct Alternative) :</p> <p>A4 JPG :</p>	1. 0	0.2 5
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Objective Question

10 9	109	<p>Which of these not a markup language?</p> <p>A1 HTML :</p> <p>A2 XML :</p>	1. 0	0.2 5
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		A3 SGML :		
		A4 XGML – (Correct Alternative) :		

Objective Question

110	110	Which protocol is used to send electronic mail?	1.0	0.25
		A1 Outlook Express :		
		A2 POP3 :		
		A3 FTP :		
		A4 SMTP – (Correct Alternative) :		

Objective Question

111	111	Digital signatures are?	1.0	0.25
		A1 Used for authenticating digital documents – (Correct Alternative) :		
		A2 Used for encrypting digital documents :		
		A3 Used for encrypting and authenticating digital documents :		
		A4 All of above :		

Objective Question

112	112	The following device is used to connect two systems using	1.0	0.2
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2		different Protocols?	0	5
		A1 : Modem		
		A2 : Repeater		
		A3 Gateway – (Correct Alternative) :		
		A4 : Bridge		

Objective Question

11 3	113	What is the term used for describing the judgmental or commonsense part of problem-solving?	1. 0	0.2 5
		A1 Heuristic – (Correct Alternative) :		
		A2 : Value based		
		A3 : Critical		
		A4 : Analytical		

Objective Question

11 4	114	The number of bits that make one nibble is	1. 0	0.2 5
		A1 : 8		
		A2 : 16		

		<p>A3 4 – (Correct Alternative)</p> <p>:</p> <p>A4 None of above</p> <p>:</p>		
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Objective Question

11 5	115	<p>1 GB is equal to</p> <p>A1 1024 MB – (Correct Alternative)</p> <p>:</p> <p>A2 1024 KB</p> <p>:</p> <p>A3 1024 bits</p> <p>:</p> <p>A4 None of above</p> <p>:</p>	1. 0	0.2 5
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Objective Question

11 6	116	<p>The 2's compliment of binary number 10101 is</p> <p>A1 110</p> <p>:</p> <p>A2 11010</p> <p>:</p> <p>A3 1011 – (Correct Alternative)</p> <p>:</p> <p>A4 11100</p> <p>:</p>	1. 0	0.2 5
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Objective Question

11 7	117	<p>Which is an incorrect combination?</p> <p>A1 : 1 Byte = 8 bits</p> <p>A2 : 1 KB = 1000 Bytes</p> <p>A3 : 1 nibble = 4 bits</p> <p>A4 : 1 MB = 2²⁰ Bytes – (Correct Alternative)</p>	1. 0	0.2 5
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Objective Question

11 8	118	<p>The register in CPU is defined as</p> <p>A1 : group of bits</p> <p>A2 : group of Bytes</p> <p>A3 : group of flip-flop – (Correct Alternative)</p> <p>A4 : group of word</p>	1. 0	0.2 5
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Objective Question

11 9	119	<p>The cache memory in computer organization is placed</p> <p>A1 : on main memory</p> <p>A2 : in CPU</p>	1. 0	0.2 5
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		<p>A3 : between CPU and main memory – (Correct Alternative)</p> <p>A4 : associated with hard disk</p>		
Objective Question				
12 0	120	<p>Which is not an Object Oriented Language</p> <p>A1 : C++</p> <p>A2 : Java</p> <p>A3 : C – (Correct Alternative)</p> <p>A4 : VC++</p>	1. 0	0.2 5